1009

OIPE

#2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,885

DATE: 09/26/2001

TIME: 12:07:56

Input Set : N:\Crf3\RULE60\09938885.txt
Output Set: N:\CRF3\09262001\1938885.raw

## SEQUENCE LISTING

```
5 (1) GENERAL INFORMATION:
             (i) APPLICANT: Bandman, Olga
      8
                             Goli, Surya K.
      9
                             Murry, Lynn E.
C--> 11
            (ii) TITLE OF INVENTION: LUNG GROWTH FACTOR VARIANT
           (iii) NUMBER OF SEQUENCES: 5
     13
     15
            (iv) CORRESPONDENCE ADDRESS:
     16
                  (A) ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
     17
                  (B) STREET: 3174 Porter Drive
     18
                  (C) CITY: Palo Alto
     19
                  (D) STATE: CA
     20
                  (E) COUNTRY: US
                                                           ENTERED
                  (F) ZIP: 94304
     21
     23
             (V) COMPUTER READABLE FORM:
                  (A) MEDIUM TYPE: Diskette
     24
     25
                  (B) COMPUTER: IBM Compatible
     26
                  (C) OPERATING SYSTEM: DOS
     27
                  (D) SOFTWARE: FastSEQ Version 2.0
            (vi) CURRENT APPLICATION DATA:
     29
C--> 30
                  (A) APPLICATION NUMBER: US/09/938,885
C--> 31
                  (B) FILING DATE: 24-Aug-2001
     32
                  (C) CLASSIFICATION:
     34
           (vii) PRIOR APPLICATION DATA:
     35
                  (A) APPLICATION NUMBER: 08/760,745
     36
                  (B) FILING DATE: 05-DEC-1996
     38
          (viii) ATTORNEY/AGENT INFORMATION:
     39
                  (A) NAME: Billings, Lucy J.
     40
                  (B) REGISTRATION NUMBER: 36,749
     41
                  (C) REFERENCE/DOCKET NUMBER: PF-0169 US
     43
            (ix) TELECOMMUNICATION INFORMATION:
     44
                  (A) TELEPHONE: 415-855-0555
     45
                  (B) TELEFAX: 415-845-4166
     46
                  (C) TELEX:
     49
       (2) INFORMATION FOR SEQ ID NO: 1:
     51
             (i) SEQUENCE CHARACTERISTICS:
     52
                  (A) LENGTH: 235 amino acids
     53
                  (B) TYPE: amino acid
     54
                  (C) STRANDEDNESS: single
    55
                  (D) TOPOLOGY: linear
    57
           (vii) IMMEDIATE SOURCE:
    58
                  (A) LIBRARY: lungast01
    59
                  (B) CLONE: 876242
    61
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
    63
         Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys
    64
         1
                          5
                                              10
```

Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala

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Input Set: N:\Crf3\RULE60\09938885.txt
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```
66
     67
         Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Phe Gly Thr His
     68
                                      40
     69
         Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Glu Glu Ser
     70
                                  55
     71
         Lys Glu Lys Phe Gly Lys Pro Asn Lys Arg Lys Gly Phe Ser Glu Gly
     72
                             70
                                                  75
     73
         Leu Trp Glu Ile Glu Asn Asn Pro Thr Val Lys Ala Ser Gly Tyr Gln
     74
                                              90
     75
         Ser Ser Gln Lys Lys Ser Cys Val Glu Glu Pro Glu Pro Glu Pro Glu
     76
                     100
                                          105
     77
         Ala Ala Glu Gly Asp Gly Asp Lys Lys Gly Asn Ala Glu Gly Ser Ser
     78
                                      120
     79
         Asp Glu Glu Gly Lys Leu Val Ile Asp Glu Pro Ala Lys Glu Lys Asn
     80
                                 135
     81
         Glu Lys Gly Ala Leu Lys Arg Arg Ala Gly Asp Leu Leu Glu Asp Ser
     82
                             150
                                                  155
         Pro Lys Arg Pro Lys Glu Ala Glu Asn Pro Glu Gly Glu Lys Glu
     83
     84
                         165
     85
         Ala Ala Thr Leu Glu Val Glu Arg Pro Leu Pro Met Glu Val Glu Lys
     86
                                          185
W--> 87
         Asn Ser Thr Pro Ser Glu Pro Gly Ser Gly Arg Gly Pro Pro Xaa Xaa
     88
                 195
                                      200
W--> 89
         Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Glu Ala Thr Lys Glu Asp Ala
     90
             210
                                 215
     91
         Glu Ala Pro Gly Ile Lys Ser His Glu Ser Leu
                             230
     94 (2) INFORMATION FOR SEQ ID NO: 2:
             (i) SEQUENCE CHARACTERISTICS:
     97
                  (A) LENGTH: 869 base pairs
     98
                  (B) TYPE: nucleic acid
     99
                  (C) STRANDEDNESS: single
    100
                   (D) TOPOLOGY: linear
    102
            (vii) IMMEDIATE SOURCE:
    103
                   (A) LIBRARY: lungast01
    104
                   (B) CLONE: 876242
    106
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
         CCGCTGCAGC CGCTTTCTGC GGCCTGGGCC TCTCGCCGTC AGCATGCCAC ACGCCTTCAA
    108
                                                                                  60
    109
         GCCCGGGGAC TTGGTGTTCG CTAAGATGAA GGGCTACCCT CACTGGCCTG CCAGGATCGA
                                                                                 120
    110
         CGACATCGCG GATGGCGCCG TGAAGCCCCC ACCCAACAAG TACCCCATCT TTTTCTTTGG
                                                                                 180
    111
         CACACAGAA ACAGCCTTCC TGGGCCCCAA AGACCTCTTC CCTTACGAGG AATCCAAGGA
         GAAGTTTGGC AAGCCCAACA AGAGGAAAGG GTTCAGCGAG GGGCTGTGGG AGATCGAGAA
    112
                                                                                 300
         CAACCCTACT GTCAAGGCTT CCGGCTATCA GTCCTCCCAG AAAAAGAGCT GTGTGGAAGA
                                                                                 360
    114
         GCCTGAACCA GAGCCCGAAG CTGCAGAGGG TGACGGTGAT AAGAAGGGGA ATGCAGAGGG
                                                                                 420
    115
         CAGCAGCGAC GAGGAAGGGA AGCTGGTCAT TGATGAGCCA GCCAAGGAGA AGAACGAGAA
                                                                                 480
         AGGAGCGTTG AAGAGGAGAG CAGGGGACTT GCTGGAGGAC TCTCCTAAAC GTCCCAAGGA
    116
                                                                                 540
    117
         GGCAGAAAAC CCTGAAGGAG AGGAGAAGGA GGCAGCCACC TTGGAGGTTG AGAGGCCCCT
                                                                                 600
         TCCTATGGAG GTGGAAAAGA ATAGCACCCC CTCTGAGCCC GGCTCTGGCC GGGGGCCTCC
    118
                                                                                 660
    119
         CCNNNNNNN NNNNNNNNN NNNNNNNNA GGAAGAGGCT ACCAAGGAAG ATGCTGAGGC
                                                                                 720
```

RAW SEQUENCE LISTING DATE: 09/26/2001 PATENT APPLICATION: US/09/938,885 TIME: 12:07:56

Input Set : N:\Crf3\RULE60\09938885.txt
Output Set: N:\CRF3\09262001\1938885.raw

| 120                                   |   |      |             |      |      |      |       |      |     |                      |     |     |     |     |     | 780 |   |
|---------------------------------------|---|------|-------------|------|------|------|-------|------|-----|----------------------|-----|-----|-----|-----|-----|-----|---|
| 121                                   |   |      |             |      |      |      |       |      |     |                      |     |     |     |     | 840 |     |   |
| 122                                   |   |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 124                                   |   |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 126                                   | • |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 127                                   | , |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 128                                   | · ·                                     |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 129                                   |   |      | (C          | ) ST | RAND | EDNE | SS:   | sing | le  |                      |     |     |     |     |     |     |   |
| 130                                   |   |      | •           | •    |      |      | line  | ar   |     |                      |     |     |     |     |     |     |   |
| 132                                   | (                                       | vii) |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 133                                   |   |      |             |      |      |      | enBa  | nk   |     |                      |     |     |     |     |     |     |   |
| 134                                   |   |      | •           | ) CL |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 136                                   |   | (xi) |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 138                                   | Met                                     | Ser  | Arg         | Ser  |      | Arg  | Gln   | Lys  | Glu | Tyr                  | Lys | Cys | Gly | Asp | Leu | Val |   |
| 139                                   | 1                                       |      |             |      | 5    |      |       |      |     | 10                   |     |     |     |     | 15  |     |   |
| 140                                   | Phe                                     | Ala  | Lys         | Met  | Lys  | Gly  | Tyr   | Pro  | His | Trp                  | Pro | Ala | Arg | Ile | Asp | Glu |   |
| 141                                   | •                                       |      |             | 20   |      |      |       |      | 25  |                      |     |     |     | 30  |     |     |   |
| 142                                   | Met                                     | Pro  | Glu         | Ala  | Ala  | Val  | Lys   | Ser  | Thr | Ala                  | Asn | Lys | Tyr | Gln | Val | Phe | • |
| 143                                   |   |      | 35          |      |      |      |       | 40   |     |                      |     |     | 45  |     |     |     |   |
| 144                                   | Phe                                     | Phe  | Gly         | Thr  | His  | Glu  | Thr   | Ala  | Phe | Leu                  | Gly | Pro | Lys | Asp | Leu | Phe |   |
| 145                                   |   | 50   |             |      |      |      | 55    |      |     |                      |     | 60  |     |     |     |     |   |
| 146                                   |   | Tyr  | Glu         | Glu  | Ser  | Lys  | Glu   | Lys  | Phe | Gly                  | Lys | Pro | Asn | Lys | Arg | Lys |   |
| 147                                   | 65                                      |      |             |      |      | 70   |       |      |     |                      | 75  |     |     |     |     | 80  |   |
| 148                                   | Gly                                     | Phe  | Ser         | Glu  | Gly  | Leu  | Trp   | Glu  | Ile | Glu                  | Asn | Asn | Pro | Thr | Val | Lys |   |
| 149                                   |   |      |             |      | 85   |      |       |      |     | 90                   |     |     |     |     | 95  |     |   |
| 150                                   | Ala                                     | Ser  | Gly         | Tyr  | Gln  | Ser  | Ser   | Gln  | Lys | Lys                  | Ser | Cys | Val | Glu | Glu | Pro |   |
| 151                                   |   |      |             | 100  |      |      |       |      | 105 |                      |     |     |     | 110 |     |     |   |
| 152                                   | Glu                                     | Pro  | Glu         | Pro  | Glu  | Ala  | Ala   | Glu  | Gly | Asp                  | Gly | Asp | Lys | Lys | Gly | Asn |   |
| 153                                   |   |      | 115         |      |      |      |       | 120  |     |                      |     |     | 125 |     |     |     |   |
| 154                                   | Ala                                     | Glu  | Gly         | Ser  | Ser  | Asp  | Glu   | Glu  | Gly | Lys                  | Leu | Val | Ile | Asp | Glu | Pro |   |
| 155                                   |   | 130  |             |      |      |      | 135   |      |     |                      |     | 140 |     |     |     |     |   |
| 156                                   | Ala                                     | Lys  | Glu         | Lys  | Asn  | Glu  | Lys   | Gly  | Ala | Leu                  | Lys | Arg | Arg | Ala | Gly | Asp |   |
| 157                                   | 145                                     |      |             |      |      | 150  |       |      |     |                      | 155 |     |     |     |     | 160 |   |
| 158                                   | Leu                                     | Leu  | Glu         | Asp  | Ser  | Pro  | Lys   | Arg  | Pro | Lys                  | Glu | Ala | Glu | Asn | Pro | Glu |   |
| 159                                   |   |      |             |      | 165  |      |       |      |     | 170                  |     |     |     |     | 175 |     |   |
| 160                                   | Gly                                     | Glu  | Glu         | Lys  | Glu  | Ala  | Ala   | Thr  | Leu | Glu                  | Val | Glu | Arg | Pro | Leu | Pro |   |
| 161                                   |   |      |             | 180  |      |      |       |      | 185 |                      |     |     |     | 190 |     |     |   |
| 162                                   | Met                                     | Glu  | Val         | Glu  | Lys  | Asn  | Ser   | Thr  | Pro | Ser                  | Glu | Pro | Gly | Ser | Gly | Arg |   |
| 163                                   |   |      | 195         |      |      |      |       | 200  |     |                      |     |     | 205 |     | _   | •   |   |
| 164                                   | Gly                                     | Pro  | ${\tt Pro}$ | Gln  | Glu  | Glu  | Glu   | Glu  | Glu | $\operatorname{Glu}$ | Asp | Glu | Glu | Glu | Glu | Ala |   |
| 165                                   |   | 210  |             |      |      |      | 215   |      |     | •                    |     | 220 |     |     |     |     |   |
| 166                                   | Thr                                     | Lys  | Glu         | Asp  | Ala  | Glu  | Ala   | Pro  | Gly | Ile                  | Arg | Asp | His | Glu | Ser | Leu |   |
| 167                                   | 225                                     |      |             |      |      | 230  |       |      |     |                      | 235 | _   |     |     |     | 240 |   |
| 169 (2) INFORMATION FOR SEQ ID NO: 4: |   |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 171                                   | 171 (i) SEQUENCE CHARACTERISTICS:       |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 172                                   | (A) LENGTH: 2376 base pairs             |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 173                                   | (B) TYPE: nucleic acid                  |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 174                                   |   |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |
| 175                                   |   |      |             |      |      |      | linea |      |     |                      |     |     |     |     |     |     |   |
|                                       |   |      |             |      |      |      |       |      |     |                      |     |     |     |     |     |     |   |

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DATE: 09/26/2001 PATENT APPLICATION: US/09/938,885 TIME: 12:07:56

Input Set : N:\Crf3\RULE60\09938885.txt Output Set: N:\CRF3\09262001\1938885.raw

```
177
       (vii) IMMEDIATE SOURCE:
178
              (A) LIBRARY: GenBank
179
              (B) CLONE: 598956
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
181
183
     GAGGAGGAGT GGGGACCGGG CGGGGGGTGG AGGAAGAGGC CTCGCGCAGA GGAGGGAGCA
                                                                           60
     ATTGAATTTC AAACACAAAC AACTCGACGA GCGCGCACCC ACCGCGCCGG AGCCTTGCCC
                                                                          120
185
     CGATCCGCGC CCGCCCGTC CGTGCGGCGC GCGGGCGGAG ACGCCGTGGC CGCGCCGGAG
                                                                          180
186
     CTCGGGCCGG GGGCCACCAT CGAGGCGGGG GCCGCGCGAG GGCCGGAGCG GAGCGCGCCC
                                                                          240
187
     GCCACCGCCG CACGCGCAAA CTTGGGCTCG CGCTTCCCGG CCCGGCGCG AGCCCGGGGC
                                                                          300
188
     GCCCGGAGCC CCGCCATGTC GCGATCCAAC CGGCAGAAGG AGTACAAATG CGGGGACCTG
                                                                          360
189
     GTGTTCGCCA AGATGAAGGG CTACCCACAC TGGCCGGCCC GGATTGACGA GATGCCTGAG
                                                                          420
190
     GCTGCCGTGA AATCAACAGC CAACAAATAC CAAGTCTTTT TTTTCGGGAC CCACGAGACG
                                                                          480
     GCATTCCTGG GCCCCAAAGA CCTCTTCCCT TACGAGGAAT CCAAGGAGAA GTTTGGCAAG
191
                                                                          540
192
     CCCAACAAGA GGAAAGGGTT CAGCGAGGGG CTGTGGGAGA TCGAGAACAA CCCTACTGTC
                                                                          600
193
     AAGGCTTCCG GCTATCAGTC CTCCCAGAAA AAGAGCTGTG TGGAAGAGCC TGAACCAGAG
                                                                          660
     CCCGAAGCTG CAGAGGGTGA CGGTGATAAG AAGGGGAATG CAGAGGGCAG CAGCGACGAG
194
                                                                          720
195
     GAAGGGAAGC TGGTCATTGA TGAGCCAGCC AAGGAGAAGA ACGAGAAAGG AGCGTTGAAG
                                                                          780
196
     AGGAGAGCAG GGGACTTGCT GGAGGACTCT CCTAAACGTC CCAAGGAGGC AGAAAACCCT
                                                                          840
197
     GAAGGAGAG AGAAGGAGGC AGCCACCTTG GAGGTTGAGA GGCCCCTTCC TATGGAGGTG
                                                                          900
198
     GAAAAGAATA GCACCCCTC TGAGCCCGGC TCTGGCCGGG GGCCTCCCCA AGAGGAAGAA
                                                                          960
199
     GAAGAGGAG ATGAAGAGA AGAGGCTACC AAGGAAGATG CTGAGGCCCC AGGCATCAGA
                                                                         1020
200
     GATCATGAGA GCCTGTAGCC ACCAATGTTT CAAGAGGAGC CCCCACCCTG TTCCTGCTGC
                                                                         1080
201
     TGTCTGGGTG CTACTGGGGA AACTGGCCAT GGCCTGCAAA CTGGGAACCC CTTTCCCACC
                                                                         1140
202
     1200
203
     CCTGGATGGG GCAGGCCACC TGGCTCTCAC CTCTAGGTCC CCATACTCCT ATGATCTGAG
204
     TCAGAGCCAT GTCTTCTCCC TGGAATGAGT TGAGGCCACT GTGTTCCTTC CGCTTGGAGC
                                                                         1320
205
     TATTTTCCAG GCTTCTGCTG GGGCCTGGGA CAACTGCTCC CACCTCCTGA CACCCTTCTC
                                                                         1380
     CCACTCTCCT AGGCATTCTG GACCTCTGGG TTGGGATCAG GGGTAGGAAT GGAAGGATGG
                                                                         1440
207
     AGCATCAACA GCAGGGTGGG CTTGTGGGGC CTGGGAGGGG CAATCCTCAA ATGCGGGGTG
                                                                         1500
     GGGGCAGCAC AGGAGGGCGG CCTCCTTCTG AGCTCCTGTC CCCTGCTACA CCTATTATCC
208
                                                                         1560
209
     CAGCTGCCTA GATTCAGGGA AAGTGGGACA GCTTGTAGGG GAGGGGCTCC TTTCCATAAA
                                                                         1620
210
     TCCTTGATGA TTGACAACAC CCATTTTTCC TTTTGCCGAC CCCAAGAGTT TTGGGAGTTG
211
     TAGTTAATCA TCAAGAGAAT TTGGGGCTTC CAAGTTGTTC GGGCCAAGGA CCTGAGACCT
                                                                         1740
     GAAGGGTTGA CTTTACCCAT TTGGGTGGGA GTGTTGAGCA TCTGTCCCCC TTTAGATCTC
212
                                                                         1800
     TGAAGCCACA AATAGGATGC TTGGGAAGAC TCCTAGCTGT CCTTTTTCCT CTCCACACAG
213
                                                                         1860
214
     TGCTCAAGGC CAGCTTATAG TCATATATAT CACCCAGACA TAAAGGAAAA GACACATTTT
                                                                         1920
215
     TTAGGAAATG TTTTTAATAA AAGAAAATTA CAAAAAAAAA TTTTAAAGAC CCCTAACCCT
                                                                         1980
     TTGTGTGCTC TCCATTCTGC TCCTTCCCCA TCGTTGCCCC CATTTCTGAG GTGCACTGGG
216
                                                                         2040
217
     AGGCTCCCCT TCTATTTGGG GCTTGATGAC TTTCTTTTTG TAGCTGGGGC TTTGATGTTC
218
    CTTCCAGTGT CATTTCTCAT CCACATACCC TGACCTGGCC CCCTCAGTGT TGTCACCAGA
                                                                         2160
219
     TCTGATTTGT AACCCACTGA GAGGACAGAG AGAAATAAGT GCCCTCTCCC ACCCTCTTCC
                                                                         2220
    TACTGGTCTC TCTATGCCTC TCTACAGTCT CGTCTCTTTT ACCCTGGCCC CTCTCCCTTG
                                                                         2280
221
    GGCTCTGATG AAAAATTGCT GACTGTAGCT TTGGAAGTTT AGCTCTGAGA ACCGTAGATG
                                                                         2340
222
    ATTTCAGTTC TAGGAAAATA AAACCCGTTG ATTACT
                                                                         2376
224 (2) INFORMATION FOR SEQ ID NO: 5:
226
         (i) SEQUENCE CHARACTERISTICS:
227
              (A) LENGTH: 237 amino acids
228
              (B) TYPE: amino acid
229
              (C) STRANDEDNESS: single
```

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PATENT APPLICATION: US/09/938,885 TIME: 12:07:56

Input Set : N:\Crf3\RULE60\09938885.txt
Output Set: N:\CRF3\09262001\1938885.raw

| 230<br>232<br>233 | (vii) |          | (D) TOPOLOGY: linear IMMEDIATE SOURCE: (A) LIBRARY: GenBank |            |          |            |                |      |      |          |            |          |            |            |               |      |
|-------------------|-------|----------|---|------------|----------|------------|----------------|------|------|----------|------------|----------|------------|------------|---------------|------|
| 234               |       |          | (B) CLONE: 945419   |            |          |            |                |      |      |          |            |          |            |            |               |      |
| 236               |       | (xi)     | SEQUENCE DESCRIPTION: SEQ ID NO: 5:                         |            |          |            |                |      |      |          |            |          |            |            |               |      |
| 238               | Met   | Ser      | Arg   | Ser        | Asn      | Arg        | Gln            | Lys  | Glu  | Tyr      | Lys        | Cys      | Gly        | Asp        | Leu           | Val  |
| 239               | 1     |          |   |            | 5        |            |                |      |      | 10       |            |          |            |            | 15            |      |
| 240               | Phe   | Ala      | Lys   | Met        | Lys      | Gly        | Tyr            | Pro  | His  | Trp      | Pro        | Ala      | Arg        | Ile        | Asp           | Glu  |
| 241               |       |          |   | 20         |          |            |                |      | 25   |          |            |          |            | 30         |               |      |
| 242               | Met   | Pro      | Glu   | Ala        | Ala      | Val        | Lys            | Ser  | Thr  | Ala      | Asn        | Lys      | Tyr        | Gln        | Val           | Phe  |
| 243               |       |          | 35  |            |          |            |                | 40   |      |          |            |          | 45         |            |               |      |
| 244               | Phe   |          | Gly   | Thr        | His      | Glu        |                | Ala  | Phe  | Leu      | Gly        | Pro      | Lys        | Asp        | Leu           | Phe  |
| 245               |       | 50       |   |            |          |            | 55             |      |      |          |            | 60       |            |            |               |      |
| 246               |       | Tyr      | Glu   | Glu        | Ser      |            | Glu            | Lys  | Phe  | Gly      | Lys        | Pro      | Asn        | Lys        | Arg           | Lys  |
| 247               | 65    |          |   |            |          | 70         |                |      |      |          | 75         |          |            |            |               | 80   |
| 248               | Gly   | Phe      | Ser   | Glu        |          | Leu        | $\mathtt{Trp}$ | Glu  | Ile  |          | Asn        | Asn      | Pro        | Thr        |               | Lys  |
| 249               |       |          |   |            | 85       |            |                |      |      | 90       |            |          |            |            | 95            |      |
| 250               | Ala   | Ser      | Gly   |            | Gln      | Ser        | Ser            | Gln  |      | Lys      | Ser        | Cys      | Ala        | Ala        | Glu           | Pro  |
| 251               |       | <b>-</b> |   | 100        |          |            |                | _    | 105  |          | _          |          |            | 110        | _             |      |
| 252               | Glu   | Val      |   | Pro        | Glu      | Ala        | His            |      | Gly  | Asp      | Gly        | Asp      |            | Lys        | Gly           | Ser  |
| 253               |       |          | 115   | _          | _        | _          |                | 120  |      |          |            | _        | 125        |            | _             |      |
| 254               | Ala   |          | GIY   | ser        | Ser      | Asp        |                | Glu  | GLY  | Lys      | Leu        |          | He         | Asp        | GLu           | Pro  |
| 255               |       | 130      | <b>a</b> 1  | _          | _        | <b>a</b> 1 | 135            | ~ 1  | -1   | _        | _          | 140      | _          |            |               | _    |
| 256               |       | ьуs      | GIU   | гàг        | Asn      |            | Lys            | GTA  | Thr  | Leu      | _          | Arg      | Arg        | Ala        | GLY           | _    |
| 257               | 145   | T        | <b>~1</b>   | 3          | <b>a</b> | 150        | <b>.</b>       | 3    | D    | <b>7</b> | 155        | <b>a</b> | <b>a</b> 1 | •          | <b>**</b> ! = | 160  |
| 258<br>259        | val   | ьеu      | GIU   | ASP        | 165      | PLO        | гуѕ            | Arg  | Pro  |          | GIU        | ser      | СТА        | Asp        |               | GIU  |
| 260               | Clu   | C1.,     | A an  | Tira       |          | т1 о       | 7 l a          | 210  | T 0  | 170      | <b>a</b> 1 | a1       | 3          | 77.2       | 175           | D    |
| 261               | GIU   | GIU      | ASP   | LуS<br>180 | GIU      | тте        | Ата            | Ата  | 185  | GIU      | СТУ        | GIU      | Arg        | His<br>190 | Leu           | Pro  |
| 262               | Val   | Glu      | Wa 1  |            | Twa      | λαη        | Cor            | Thr. | -    | Cor      | C1.,       | Dro      | N an       | Ser        | C1            | C15  |
| 263               | val   | GIU      | 195   | GIU        | гЛЯ      | ASII       | ser            | 200  | PIO  | ser      | GIU        | PIO      | 205        | ser        | GTĀ           | GIII |
| 264               | Clv   | Dro      |   | λla        | Glu      | C111       | Clu            |      | C1++ | C1.,     | Clu        | Clu      |            | Ala        | T 170         | C1.1 |
| 265               | ату   | 210      | FIU   | ита        | GIU      | GIU        | 215            | GIU  | ату  | GIU      | GIU        | 220      | мта        | чта        | пуз           | GIU  |
| 266               | Glu   |          | Glu   | Δla        | Dro      | Gly        |                | Δra  | λen  | цiс      | Glu        |          | Lou        |            |               |      |
| 267               | 225   | 11.I.U   | JIU   | 11IU       | 110      | 230        | vu1            | nr 9 | чэр  | итэ      | 235        |          | neu        |            |               |      |
| 207               | 223   |          |   |            |          | 230        |                |      |      |          | 233        |          |            |            |               |      |

## VERIFICATION SUMMARY

DATE: 09/26/2001

PATENT APPLICATION: US/09/938,885

TIME: 12:07:57

Input Set : N:\Crf3\RULE60\09938885.txt Output Set: N:\CRF3\09262001\1938885.raw

L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:] L:11 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:] L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

 $L:87 \ M:341 \ W: (46)$  "n" or "Xaa" used, for SEQ ID#:1

L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1